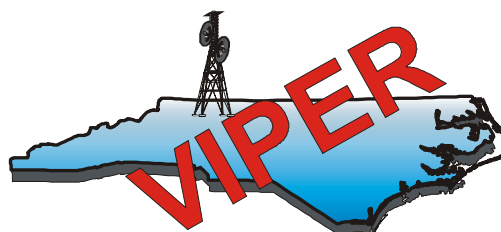


Voice Interoperability Plan for Emergency Responders

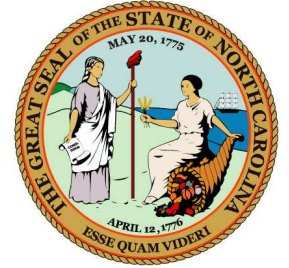
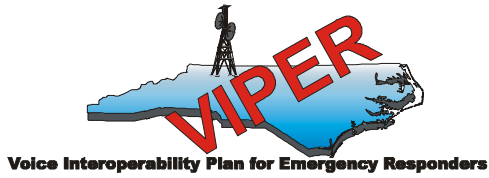




Voice Interoperability Plan for Emergency Responders

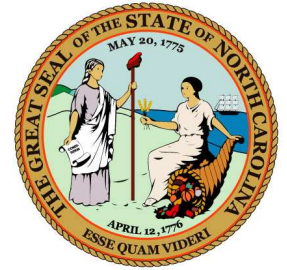
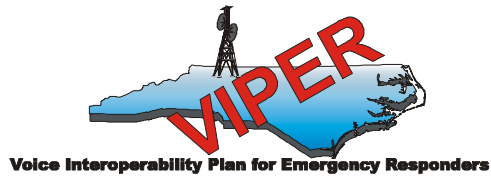
A CJIN Module





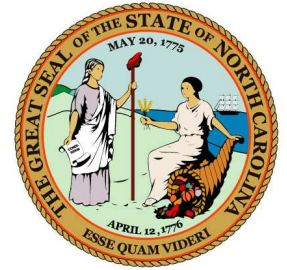
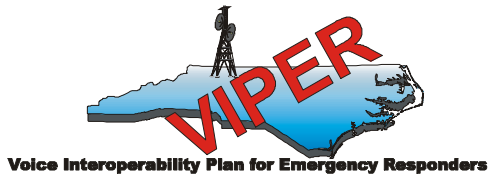
Background

- Original CJIN Voice Trunking Network (VTN)
- Recommended in the 1995 CJIN Legislative Study by Price Waterhouse
- Re-Validated in CJIN re-fresh study in 2002 by Gartner Group

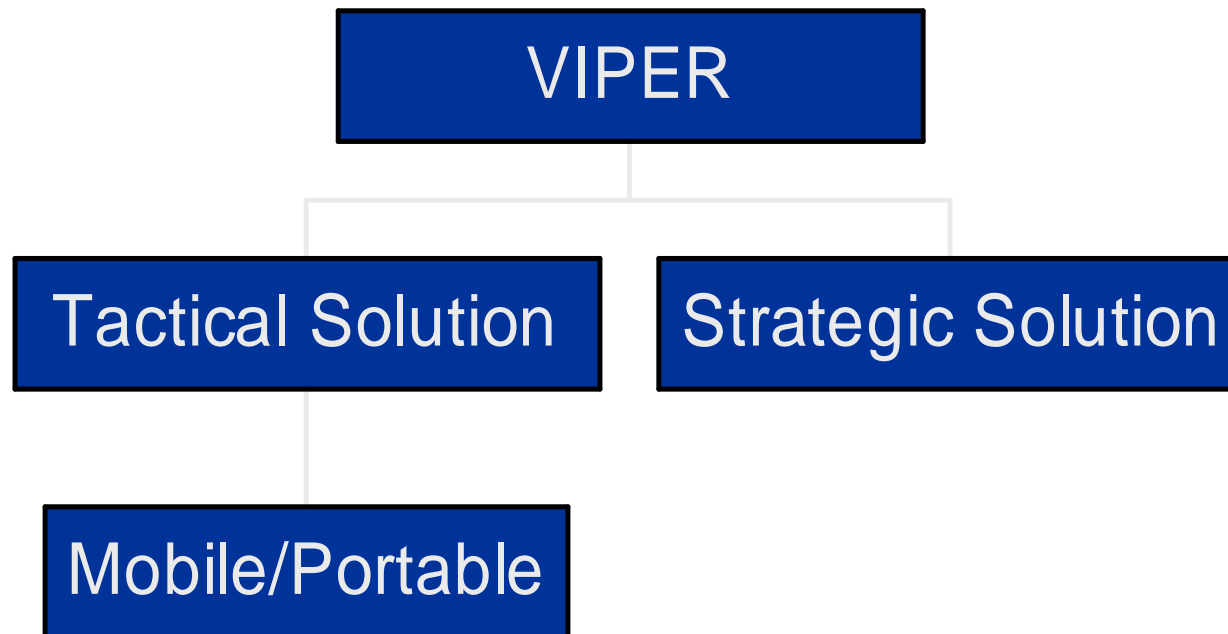


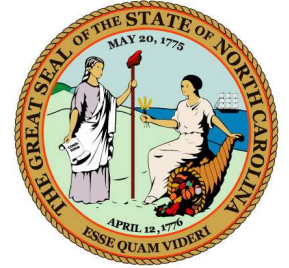
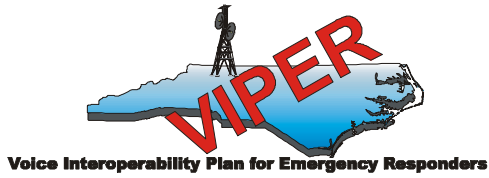
Examples Lack of Voice Interoperability

- Air Crash at RDU 1994
- Murrah Building, Oklahoma City 1995
- Hurricane Fran 1996
- Hurricane Floyd 1999
- Columbine High School 1999
- Twin Towers, New York City 2001



Voice Interoperability Plan for Emergency Responders

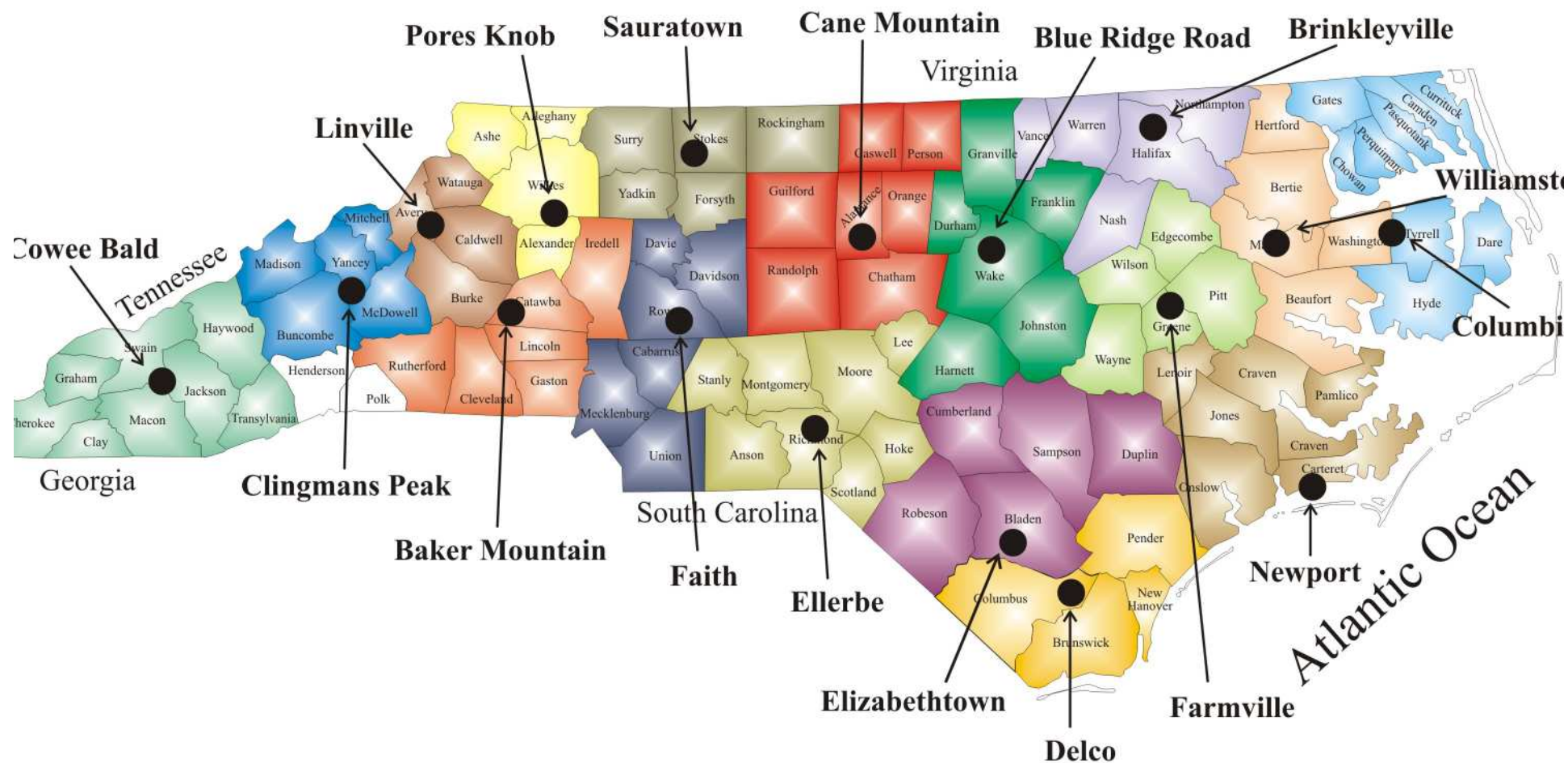




Tactical Solution

- Temporary solution for interoperable emergency communications
- 17 remote fixed site communications gateways
- Controlled at SHP Communications Centers
- Pre-equipped with radios for locals

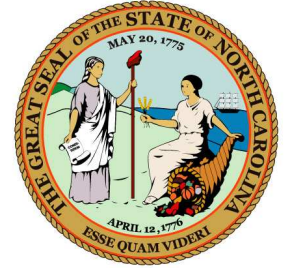
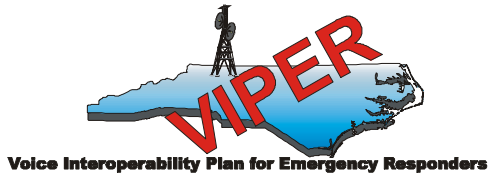
VIPER Inter-Agency Interop Sites



Henderson and Polk counties have no coverage at this time, however, coverage is forthcoming.

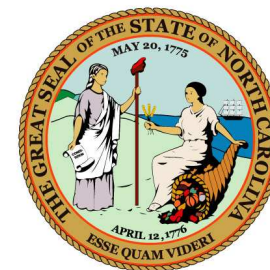
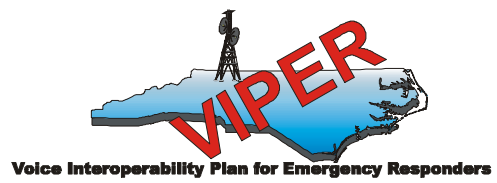
3 May 2007

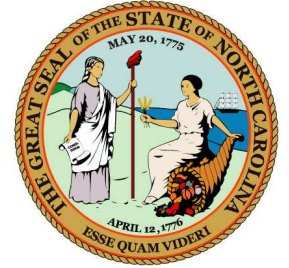
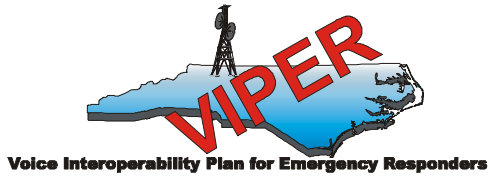




Mobile Solution Tactical

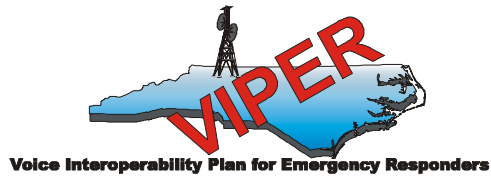
- 3 mobile interoperable communications platforms to eliminate diminished capacity for extended periods
- Pre-positioned across the state
- Long term incidents / events
 - More than 6 to 8 hours
- Enhanced unit to support 800 MHz systems and operate as a standalone communications system
- Large special events



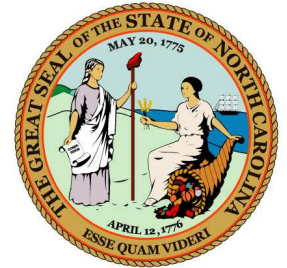


Strategic Solution

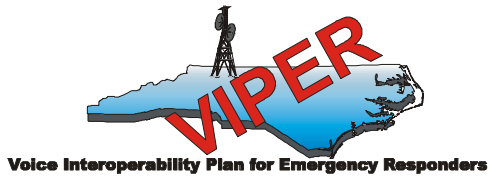
- Statewide 800 MHz trunked radio system available for **all emergency responders**.
- Project 25 compliant
- Individual talk groups for agencies
- Mutual aid talk groups
- VIPER is the infrastructure
 - 95% in-street portable coverage based on a 3 watt portable radio
- Compatible with 29 other trunked voice systems throughout North Carolina



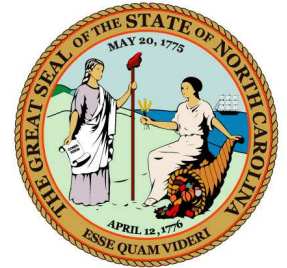
Partnerships



- 39 sites identified that may be re-useable for the VIPER Strategic Solution from Progress Energy.
- Dominion Power
- Time Warner Cable
- NC Electric Membership Co-ops
- UNC-TV



Status to Date



- **238 total sites planned for statewide coverage.**
109 sites constructed and on-the-air
81 sites are fully funded and under construction
48 sites remaining to be funded and built
- **Estimated cost for VIPER is \$189 million**
\$104 million funded to date
\$85 million remains to be funded
Funding to-date has been a combination of Congressional earmarks (2%),
state appropriations (21%), and DHS Funds (77%)
-
- **VIPER is 45% complete (number of sites) with 109 sites on-the-air**
- **VIPER infrastructure is 55% funded;**
- **45% of VIPER remains to be funded**
- **27,000 users are currently on the VIPER Network**
135 Emergency Responding agencies (including federal, state and local
agencies) makeup the 27,000 radio users
- **SC has the same type Interoperable System; NC/SC can talk to each other**
using the same type user device.



QUESTIONS?

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amelvin@ncshp.org

www.nccrimecontrol.org/citizens/VIPER

